

ABSTRACT

5 A polyolefin article is provided which exhibits excellent levels of mechanical strength and dimensional stability to temperature while not incorporating a dissimilar reinforcing material, such as a glass fiber, and which can be readily manufactured. Methods for manufacture of the polyolefin article are also provided.

10 The polyolefin article being composed of polyolefin and including an oriented polyolefin material to maintain its average coefficient of linear expansion at a value of not exceeding 5×10^{-5} ($^{\circ}\text{C}$) in the $20 - 80^{\circ}\text{C}$ range, and the method for manufacture of the polyolefin article including the steps of depositing, on a surface of an oriented
15 polyolefin material having a value of not exceeding 5×10^{-5} ($^{\circ}\text{C}$) for average coefficient of linear expansion in the $20 - 80^{\circ}\text{C}$, a low-molecular compound capable of dissolving the polyolefin, and thereafter effecting bonding of the oriented polyolefin material by the application of pressure and heat.